

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

Claims 1 and 2 (Cancelled)

3. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 1~~ claim 6, wherein

the first regenerative braking device is configured and arranged to apply the first regenerative braking force on the first wheel subject to the first braking system.

4. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 2~~ claim 3, wherein

the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on the ~~first~~ second wheel subject to the ~~first~~ second braking system.

5. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in claim 4, wherein

the hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a second hydraulic braking force on an additional first wheel subject to the first braking system;

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

the electric braking apparatus includes a second electric braking device configured and arranged to apply a second electric braking force on an additional second wheel subject to the second braking system; and

the regenerative braking apparatus includes a third regenerative braking device that is configured and arranged to apply a third regenerative braking force on the additional first wheel and a fourth regenerative braking device that is configured and arranged to apply a fourth regenerative braking force on the additional second wheel.

6. (Previously Presented) A vehicle braking apparatus comprising:
- a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;
 - an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system;
 - a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on one of the first and second wheels subject to a corresponding one of the first and second braking systems; and
 - a regenerative power supply pathway configured and arranged to directly supply power regenerated by the regenerative braking apparatus to the electric braking apparatus.

Claim 7. (Cancelled)

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

8. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 1~~ claim 6, wherein

the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to be independently operable from the first regenerative braking device to provide a second regenerative braking force to one of the first and second wheels subject to one of the first and second braking systems:

9. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 1~~ claim 6, wherein

the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is disengagably linked to a drive shaft side of an engine.

Claims 10-13. (Cancelled)

14. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 13~~ claim 34, wherein

the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on both of the front wheels.

15. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 12~~ claim 33, wherein

the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on one of the rear

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

wheels and the first regenerative braking device that is configured and arranged to apply the first regenerative braking force on the other of the rear wheels.

16. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 12~~ claim 33, wherein

the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on both of the rear wheels.

17. (Withdrawn) The vehicle braking apparatus as recited in claim 15, wherein the regenerative braking apparatus includes a third regenerative braking device that is configured and arranged to apply a third regenerative braking force on one of the front wheels and a fourth regenerative braking device that is configured and arranged to apply a fourth regenerative braking force on the other of the front wheels.

18. (Withdrawn - Currently Amended) The vehicle braking apparatus as recited in ~~claim 1~~ claim 6, wherein

the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being rear wheels.

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

19. (Withdrawn) The vehicle braking apparatus as recited in claim 18, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being front wheels.

20. (Withdrawn) The vehicle braking apparatus as recited in claim 19, wherein the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

21. (Withdrawn) The vehicle braking apparatus as recited in claim 19, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on one of the rear wheels and the first regenerative braking device that is configured and arranged to apply the first regenerative braking force on the other of the rear wheels.

22. (Currently Amended) A vehicle braking apparatus comprising:
hydraulic braking means for applying a hydraulic braking force on at least one first wheel subject to a first braking system with the first wheel being a front wheel linked to a drive shaft;

electric braking means for applying an electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system with the second wheel being a rear wheel; and

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

regenerative braking means for applying a regenerative braking force on one of the first and second wheels ~~the second wheel subject to the second braking system~~ one of the first and second braking systems; and

regenerative power supply means for directly supplying power regenerated by the regenerative braking means to the electric braking means via a direct pathway.

23. (Currently Amended) A method of controlling a braking apparatus comprising:

~~— driving a drive shaft by an internal combustion engine;~~

selectively applying a hydraulic braking force on at least one first wheel subject to a first braking system;

selectively applying an electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system; ~~and~~

selectively applying a regenerative braking force using a regenerative braking apparatus on one of the first and second wheels ~~that is linked to a non-driving shaft and that is~~ subject to one of the first and second braking systems; and

selectively supplying power regenerated by the regenerative braking apparatus to the electric braking apparatus through a regenerative power supply pathway that is configured and arranged to directly supply the power regenerated by the regenerative braking apparatus to the electric braking apparatus.

Claims 24-29. (Cancelled)

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

30. (Previously Presented) The vehicle braking apparatus as recited in claim 6, wherein
the electric braking apparatus including a parking brake device that is configured and arranged to maintain a parking braking force.

31. (Previously Presented) The vehicle braking apparatus as recited in claim 6, wherein
the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is linked to a non-driving shaft.

32. (Previously Presented) The vehicle braking apparatus as recited in claim 6, wherein
the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels.

33. (Previously Presented) The vehicle braking apparatus as recited in claim 32, wherein
the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels.

Appl. No. 10/659,381
Amendment dated March 4, 2005
Reply to Office Action of December 9, 2004

34. (Previously Presented) The vehicle braking apparatus as recited in claim 33, wherein

the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

Claims 35-42 (Cancelled)